**Unit 5 Map - Cell Division**

Biology 1

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| **Topic** | **Specific Learning Target** | **Checkpoint Score %** | **Test Score %** |
| Organization of DNA | A. I can identify the parts of a chromosome. |  |  |
| B. I can explain why DNA copies and coils up into a chromosome before cell division. |
| Mitosis | C. I can explain why cells must divide when they get too large. |  |  |
| D. I can identify the stages of the Cell Cycle. |
| E. I can explain and draw what happens in each stage of Mitosis—prophase, metaphase, anaphase, and telophase. |
| F. I can compare and contrast cytokinesis in plant vs. animal cells. |
| G. I can explain how mitosis is different from cell division in prokaryotic cells (binary fission). |
| Meiosis | H. I can compare and contrast sexual and asexual reproduction. |  |  |
| I. I can explain and draw what happens in each stage of Meiosis I. |
| J. I can explain and draw what happens in each stage of Meiosis II. |
| K. I can describe how meiosis creates egg and sperm cells in humans. |
| L. I can explain what a karyotype depicts and explain how it relates to nondisjunction. |
| Cell Cycle Regulation | M. I can describe the methods cells use to control the cell cycle. |  |  |
| N. I can explain what happens when cell cycle controls fail (i.e. cancer). |